10/4 Characterization of aone? - Dericed HSTNAZ . Binding to THE (onhibition by #398 x-STNPET Ab)

We went to further characterize the biological monse (mo Ab) actually of Clone ? - derived hSTNIFKI. namely, We went to determine if a neutralizing Ab to STNFRI, H398 (BioSource), Can inhibit the binding X-NTUPPI unt also relognizes the of Clone 7-STUFFET to TUF. soluble fragment Cat # AHRBOIT Cat # AHE3011 Assay
Not # 10010-015 1) Coat plate with augline of Chemican
Tagasa recombinant hTNF-a. Block plate W/ 20/0 BSA.
Newthalizing 2) Preinculate Clone 7 peripleson (reat, 1/2, 07'/4)
** dillusions of the authorized distributions of the authoriz Dr the purisied lukaryotic protein (fraction 3 - pgs 87-89) with 103 Bl mores (at 8 or 16 ug/ne) of #348 (at 0.501/19/ne) * dilutions o phiplasm made

contentration 3) Detect the Captured STRIFEI with 2 ug/rel goat a NSTUFRIE-B) Ab.

for 30 min. in a 30°C 450 hath. 40 welevent N418 06

at Rigine.

PNPP Inculation = 15 min. I The concentration of peripleson or entitledy was held constant while the opposite variable changed.

Sample Refinitions:

add to the plate

H398:

in lingger P.

spiked with the

- (1) TNF + preinculated purplesm or fraction 3 + goat & hstruter B Ab.
- (2) THE WITH 103B1, #398, OT NAIS alone (no peripleon) + grat ~ hstruffer - B) Ab.
- Trus + peripleson or fraction 3 NOT prevenuented with any Ab + goat & hstrate B Ab.
- (A) THE + goat & hstrige I B) Ab (no peripleon, prenculated of otherwise). * Received 0.196 88A 1985/ Sween with.

* 4B- E would have been a duplicate of 1B-E.

'PRI Ab) 248 1 NA 8 (ID3 EI) (STUFE) 16-6 peripiesm neat ${f B}$ 1.1 リa C ′/4 D B8A. facture ${f E}$ PGS 87-89) S 07/19/11) N418 16 1/nl. Raw Data Report Dual Wavelength 0.119 0.109 0.112 0.108 0.105 0.094 0.105 0.788 0.360 0.6630.107 0.5100.8750.401 0.331 0.301 0.108 0.3990.373 0.208 * Should have 0.199 0.194 0.178 0.109 0.219 0.216 0.154 diluted gracum3-*.*** 0.095 previous ELISA didn't list the dilution (pg 97), Absorbance Report Dual Wavelength but previous estimates were Mean. 0.119 Std.Dev. 0.000 2M) + 0.000 -0.010 -0.007 -0.011 -0.014 -0.025 -0.014 0.832 0.549 0.391 -0.012 0.756 0.669 0:241 0.282 0.212 0.182 -- 0.011 0.280 0.254 0.080 0.075 0.059 -0.010 0.100 0.097 0.035 *.*** *.*** -0.024 *.*** 2.250 1.130 tummary of Data: ncullated Starting A405 (NO A6) in ustal. 8.832 5.64 neat 1.282 1.254 0.280 1/2 6.212 0.182 0.097 114 1.075 0.059 0.100 0.080

* There appears to be inhibition of Clone 7 - derived STNPEI by #398, but not nuch by D3BI which we previously thought was reutralizing. The irrelevent Ab Contral, N418, however, man be non-policipically hearting with the periplem.

8

6.089

0.035

Characterization of Clone 7- derived himself. in mindered 10/10 10 . THE - Inhibition ley a TIMI 11.

In addition to the assay done on 10/4 (pr) 1th indices. a neutralizing &-STNFKI Alo inhibited the bunding of Olone? STRIPEI to THE, We want to demonstrate that antibodies to not inhibit the binding of Obne 1 STMERT to TRIF. In Conjunction, these data support the Contention that the Clone 1 STRIFET is folded properly and, therefore, will beind to the active site of these TRIF. 800 JANAAN HARA

assup

I. Romo A, B, + C beat with Chemicon TNF at augine - Block in 20/0 BS mouse (numerous) Add a THE AG at 0, 1, 2, or 4 ug/me (ADMANTES Clones.

and & The Clither: the Clone of version purified on the strep - tag column on 1011 (per pg 98) (these while produced on 9/10) -> used fraction 3 diluted 1:2 in lugger P; on the encarystic version made by Hela Cello and purified on the Thit-affinity column - used fraction 4= 254 ng/me of purifical diluted to sona 1000) dieuted to song/me).

add goat a nstruker-B at augine

add KPL SA-AP (at 1:1000) PNPP inculation = 10 min.

I ROWS ALE

- coat w/ TNF at 2 ug/me - Block

- Add the strep-tag, prokeryotic STUFFEI (1/2 as described_ about, fraction 3)

- Add a- THE No at 0,1,2,01 4 ug/me

- add goat a mouse Ig G, A, & m-AD (KA) at augine - PNPP = 5 min.

1×=0.519

Delc=0.189

auk= &519

	υ 1	×-71	UF AL	o (uejnit 4 1
pirthid snep #yd peranythi stuff	alone Alone	(3)	(3)	(3)
1/2 B	(2)	0	(I)	0
STUFFE (16)	(2)	0	0	(1)
D	gut a maxisti (4)	(3)	(3)	(3)
purifical step this F percent in the STNPTE	رق	0	0	Œ

- 1) all reagents
- 2) TNF, STNFR, ND W-TNFAG,
- 3) TNF, ND STNFE, ~-TNF Nb,
- A TRIF, LO STRIPR, NO X-TRIFAB,

and co .. For body 1, BI the the next signals, with increasing &-TNF No, this signal should drop. 1B2, B3, + B4 and L2, C3, x C4 respectively) .. For dosay 2, D2, D3, and D4 represent maximum binding a reduction in these signals when our STNIFKI (clone 7) is added suggests that it binds to the acture site of the and prevents the x-TNF As from lunding

There is a reduction in α -rhit Ab Minding

Onclusion.
The Clone I - derived 15TRIPET is properly fulded and biologically actuice.